

### Claims

We claim:

1. A method for making a conductive path in a laminate structure hole comprising the steps of:
  - providing a laminate with a top surface and a bottom surface and having at least one hole;
  - providing a conductive element;
  - inserting the conductive element into the at least one hole in the laminate; and
  - deforming the conductive element within the at least one hole in the laminate to retain the conductive element within the at least one hole.
2. The method of claim 1, wherein the deforming of the conductive element further includes forming an electrode at the top surface of the laminate.
3. The method of claim 1, wherein the at least one hole is a through hole extending from the top surface to the lower surface of the laminate.
4. The method of claim 1, wherein the conductive element is a sphere.

3 5. The method of claim 4, wherein the sphere is solid or  
4 hollow.

1 6. The method of claim 1, wherein the at least one hole is  
2 a blind via.

1 7. The method of claim 1, wherein the conductive element  
2 includes a conductive surface covering a base element.

1 8. The method of claim 7, wherein the conductive surface is  
2 selected from the group consisting of copper, brass, gold,  
3 and bronze.

1 9. The method of claim 7, wherein the base element is  
2 selected from the group consisting of glass, rubber, and  
3 plastic.

1 10. The method of claim 1, wherein the conductive element is  
2 a cylinder.

1 11. The method of claim 10, wherein the cylinder is solid or  
2 hollow.

1        12. The method of claim 1, wherein the conductive element is  
2        selected from the group consisting of copper, brass, gold,  
3        and bronze.

1 13. The method of claim 1, wherein the at least one hole is  
2 a buried via.

Geographical location	
Country	Spain
Region	Valencia
City	Valencia
Area	10.5 km <sup>2</sup>
Population	100,000
Year of study	2005

  

Study design	
Design	Case-control
Case definition	Confirmed cases of dengue fever
Case ascertainment	Through the regional health system
Control definition	Individuals without dengue fever
Control ascertainment	Through the regional health system
Matching	Age, sex, and residence
Sample size	100 cases and 100 controls

  

Data collection	
Source of data	Regional health system
Data collection period	January to December 2005
Data collection method	Interviews and medical records
Data collection instrument	Structured questionnaire
Data collection personnel	Trained interviewers
Data collection supervision	Principal investigator

  

Statistical analysis	
Statistical software	SPSS 16.0
Statistical methods	Chi-square test, Fisher's exact test, Odds ratio (OR), 95% confidence interval (CI)
Significance level	0.05
Power	80%

  

Ethical approval	
Ethical approval	Yes
Ethical approval number	12345
Ethical approval date	January 2006

  

Funding	
Funding source	Regional health system
Funding amount	10,000 €
Funding period	January to December 2005

  

Conflict of interest	
Conflict of interest	No

  

Conclusion	
Conclusion	Dengue fever is a public health problem in Valencia, Spain.
Recommendations	Implement measures to prevent dengue fever transmission.

1 14. A method comprising:  
2 → embedding a conductive element into a laminate, wherein  
3 the conductive element substantially maintains a shape while  
4 the laminate deforms to accommodate the conductive element.

1 15. The method of claim 14, wherein the conductive element  
2 includes a conductive surface covering a base element.

1 16. The method of claim 15, wherein the conductive surface  
2 is selected from the group consisting of copper, brass, gold,  
3 and bronze.

1 17. The method of claim 15, wherein the base element is  
2 selected from the group consisting of glass, rubber, and  
3 plastic.

1 18. The method of claim 15, wherein the conductive element  
2 is selected from the group consisting of copper, brass, gold,  
3 and bronze.

1 19. The method of claim 15, wherein the conductive element  
2 is a sphere or a cylinder.

1 20. The method of claim 15, wherein the conductive element  
2 is hollow.

0986478.064901

21. A method comprising:

providing an opening in a laminate; and

pressing a conductive element into the opening.

22. The method of claim 21, wherein the opening is a hole.

23. The method of claim 21, wherein the conductive element  
is a sphere.

24. The method of claim 21, wherein the conductive element  
is a cylinder.

1 25. A method comprising:  
2 providing a plurality of laminates;  
3 embedding at least one conductive element into each  
4 laminate;  
5 forming a contact pad on each end of each conductive  
6 element;  
7 bonding each laminate together to form a stack; and  
8 wherein adjoining contact pads press together and form  
9 an electrical connection.

26. The method of claim 25, further including a conductive  
adhesive applied between adjoining contact pads.

0903170-061901

SUB  
A2

1  
1  
2  
1  
2  
1  
2  
3

27. A structure comprising:

a conductive element embedded into a laminate.

28. The structure of claim 27, further including an opening  
in the laminate that the conductive object is pressed into.

29. The structure of claim 28, wherein the opening is a hole  
in the laminate.

30. The structure of claim 27, wherein the conductive  
element is a sphere or a cylinder.

31. The structure of claim 27, wherein the conductive  
element is selected from the group consisting of copper,  
brass, and bronze.

32. The structure of claim 27, wherein the laminate is  
selected from the group consisting of epoxy, cyanate-epoxy  
blend, and glass reinforced carrier.

add  
A3

Add B4

END920000187US1